

Abstract

5 The invention relates to a biochemical assay for wide class of hydrophobic
Coenzyme A esters wherein the analyte is caused to react with a specifically
binding, modified protein, and thereby causing a detectable signal. A one step assay
for hydrophobic carboxylic acid esters in whole blood, serum, food and feed
preparations, tissue extracts, acyl-CoA synthetase reaction media and various
laboratory conditions using a modified Coenzyme A- and acyl-CoA binding protein
10 (ACBP) is provided. Furthermore the invention relates to a construct comprising a
peptide and a signal moiety for performing an assay, a kit for assaying hydrophobic
CoA esters, hydrophobic carboxylic acids, triacylglycerides, phospholipids, and
cholesterolesters.

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